

Notice of Allowability

Application No.

10/769,253

Applicant(s)

GRAUNKE, GARY L.

Examiner

Andrew L. Nalven

Art Unit

2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers submitted 1/30/2004.
2. ☒ The allowed claim(s) is/are 1-9 and 12-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Barre (Reg # 44,023) on 30 May 2007.

The application has been amended as follows:

Claims 10 and 11 are canceled.

Please amend claim 8 line 1 to read as follows:

Claim 8. An article comprising: a tangible machine readable storage medium storing

Please amend claim 13 line 1 to read as follows:

Claim 13. An article comprising: a tangible machine readable storage medium storing

Please amend claim 14 as follows:

Art Unit: 2134

Claim 14. A video processing system comprising:

a transmitter adapted to encrypt video frames and to send a stream of encrypted video frames, wherein the transmitter comprises a first hardware component; and

a receiver adapted to receive the stream of encrypted video frames from the transmitter, to obtain an encrypted value for a selected pixel in a selected encrypted video frames, to decrypt the encrypted pixel value using a first portion of the receiver's current key stream, to re-encrypt the pixel value using a second portion of the receiver's current key stream, and to send the re-encrypted pixel value from the receiver to the transmitter, wherein the receiver comprises a second hardware component;

wherein the transmitter is further adapted to obtain a plaintext value for the selected pixel from a corresponding original video frame, to encrypt the plaintext pixel value using a second portion of the transmitter's current key stream, to compare the re-encrypted pixel value received from the receiver with the encrypted pixel value generated by the transmitter, and to detect a loss of cipher synchronization when the values do not match.

Allowable Subject Matter

1. Claims 1-9 and 12-17 are allowed.

The following is an examiner's statement of reasons for allowance:

2. The cited prior art, Mallela and Heys, teach methods of synchronizing stream ciphers and methods of detecting a loss of synchronization. However, the cited prior art

fails to teach or suggest detecting the loss of stream cipher synchronization between a transmitter and a receiver in a video processing system where the receiver decrypts a single selected video pixel, re-encrypts the pixel using a second portion of the current key stream, and returns the re-encrypted pixel to the transmitter to allow the transmitter to verify the re-encrypted pixel to ensure synchronization. As a result, the cited prior art fails to anticipate or render obvious the above cited claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Nalven whose telephone number is 571 272 3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571 272 3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2134

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andrew Nalven

AN


KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER